Individual Camouflage, Firing Techniques and Fighting Positions

Terminal Learning Objective

Action: Camouflage self and equipment in a snow covered environment

Condition: In any snow covered environment, given individual load bearing equipment, helmet, weapon, ECWCS, over-whites and camouflage tape

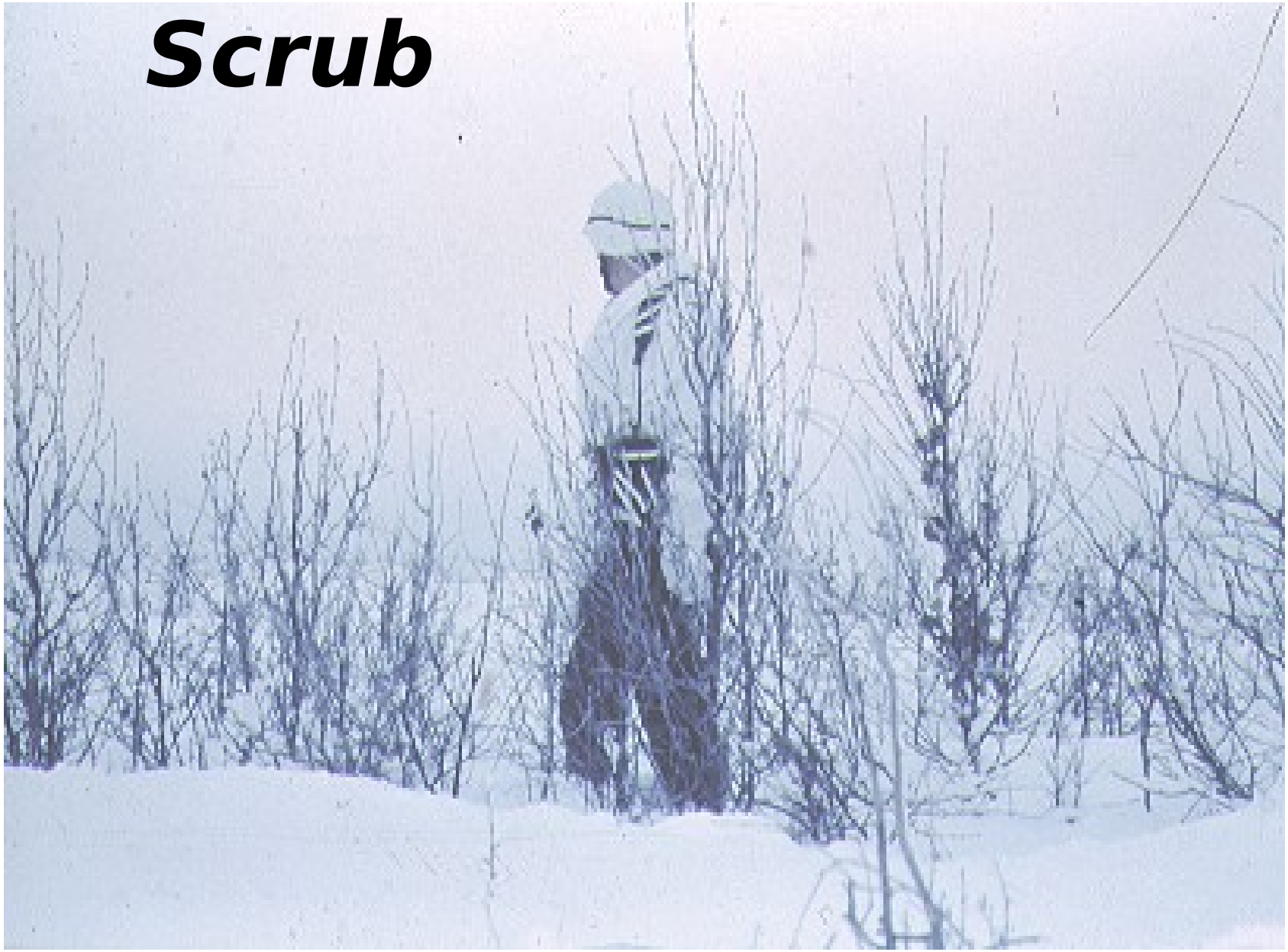
Standard: Select the camouflage outerwear appropriate for the terrain. Camouflage equipment and weapon without affecting the function. Change camouflage scheme as the conditions change.

Camouflage Combinations for Different Types of Terrain

- ***Thickly Wooded Area…….ACU pattern ECWCS (use white trousers with deep snow)***
- ***Low Brush or Light Scrub…White Parka and ACU ECWCS trousers***
- ***On trails/roads……ACU Parka and white trousers***
- ***Above Treeline (open field)…All White***

Thickly Wooded

Low Brush/Light Scrub



On trails/roads

Open Field

What Can Be Used?

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Individual Firing Techniques on Skis and Snowshoes

Terminal Learning Objective

Action: Engage targets with assigned weapons in a snow covered environment

Condition: Given load bearing equipment, helmet, assigned weapon, ECWCS, over-white set, skis or snowshoes with poles, ahkio sled, M-122 tripod and traversing and elevating mechanism

Standard: Engage targets from a standing, kneeling and prone position on skis and snowshoes. Engage targets using crew served weapons.

Standing Firing

Kneeling on Skis

Kneeling on

Prone Firing Position on

Prone with

Crew Served - Using Ahkio as a

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Fighting Positions

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Action: Construct a fighting position in a frozen, snow covered environment

Condition: Given load bearing equipment, helmet, personal weapon, appropriate clothing, a specific location with trees able to support a wall, a sector of fire, snow, logs, binding materials, and pioneer tools. A location for ice crete will be furnished if it is necessary to produce ice crete blocks. This location will have a water source, gravel, forms of uniform size and snow.

Standard: Construct a fighting position wide enough for self, battle buddy and all equipment. Clear assigned sector of fire. Provide side, rear and overhead cover.

Construction Materials

- ***Snow***
- ***Frozen soil***
- ***Ice***
- ***Stone***
- ***Timber***

Wet Snow

- ***Packs well and is easier to shape***
- ***Becomes stronger as it sets***
- ***Strongest when temperature decreases after construction***

Dry Snow

- ***Less suitable for expedient construction***
- ***Does not pack as well as wet snow***
- ***Generally takes a few hours to consolidate (after it is moved)***

Hard Packed Snow

- ***Wind moves snow and it consolidates into hard packed snow***
- ***Used for fortification and expedient shelters***

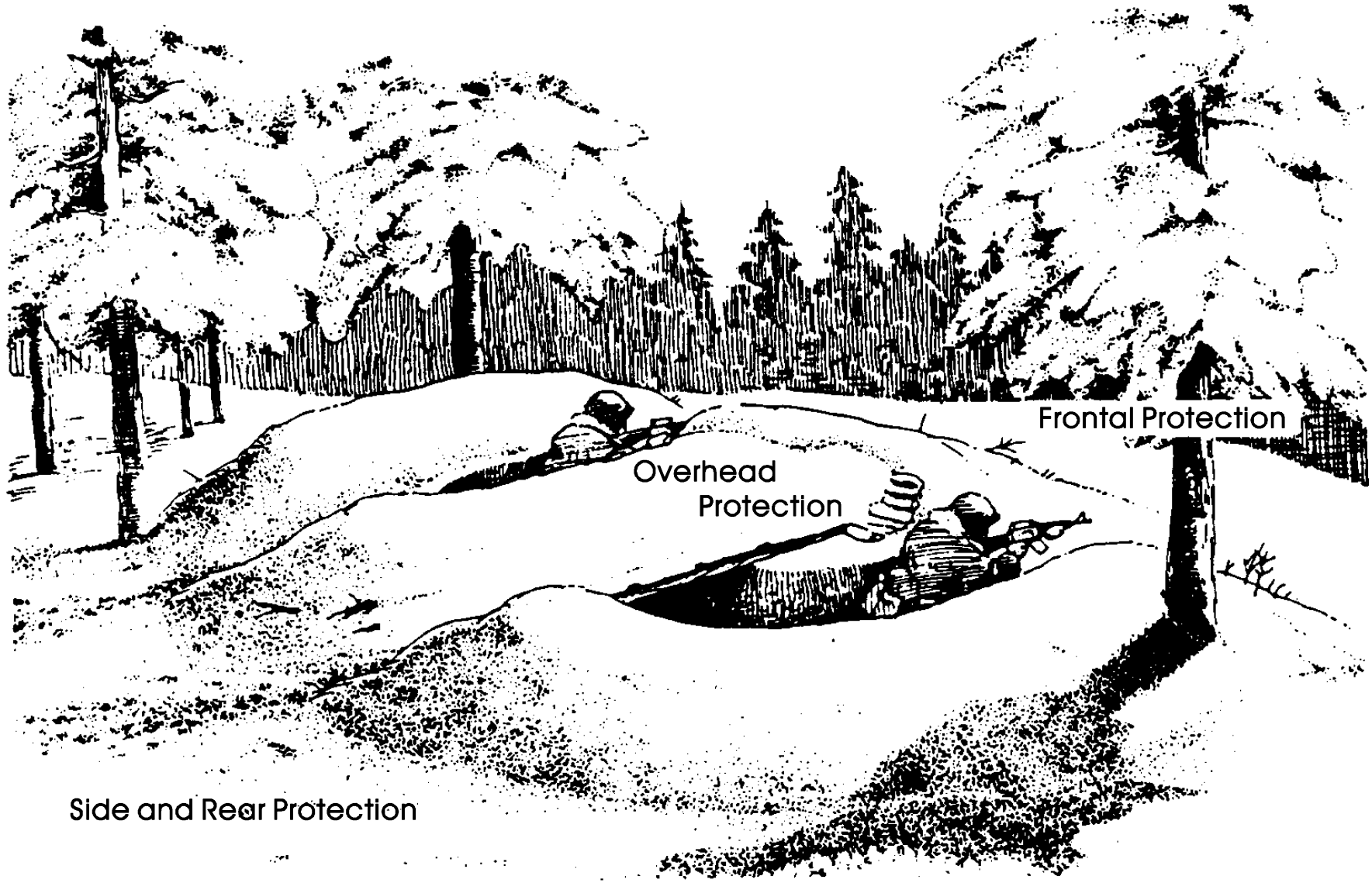
Ice Crete

- ***Mixture of soil, water, rock, gravel, sand, silt***
- ***Pour and tamp into forms***
- ***Properties of Portland cement; stronger than ice but it will generally melt faster***
- ***Cover with snow to delay meting and to camouflage***
- ***Use for above or below ground positions***

Small Arms Penetration Tables

Snow Characteristics	Feet	Centimeters
Newly Fallen Snow	13	400
Firmly Frozen	8-10	245-300
Packed Snow	6.5	200
Frozen Snow/Water Mixture	4-5	120-150
Ice	3.25	100
Ice Crete	1	30
NOTE: Based on penetration of a single 7.62 NATO round		

Below Ground Positions



Below Ground Positions

- ***Use conventional methods when frost line is one foot thick or less***
- ***If more than one foot thick, engineer support or demolition is required***
- ***Snow for camouflage and additional protection***
- ***Use timber for revetment***

Overhead Cover

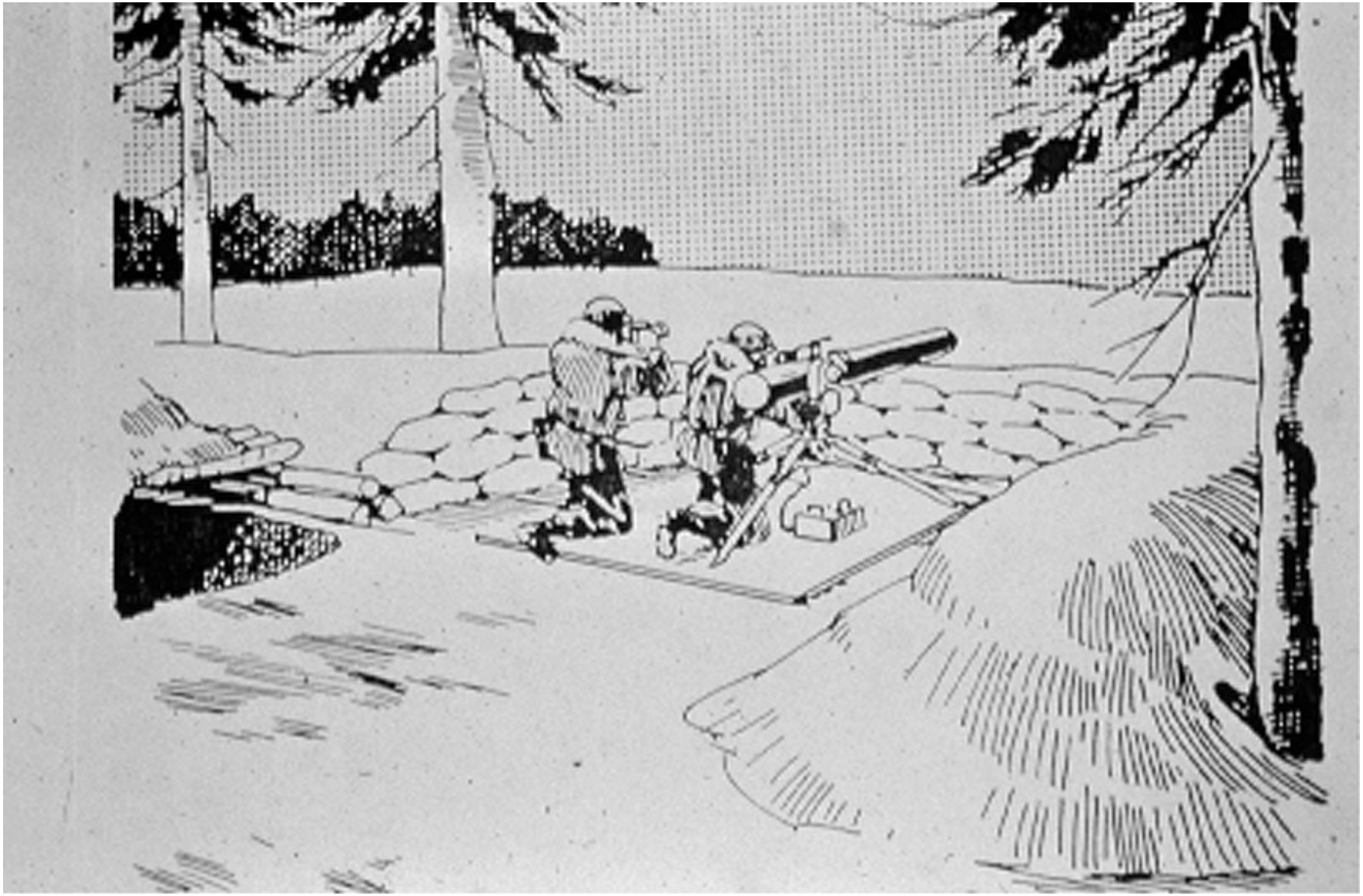
- ***Logs approximately 6 inches in diameter***
- ***3 feet of packed snow***
- ***Logs approximately 2 inches in diameter- bursting layer***
- ***Snow for camouflage***

Above Ground Fighting Positions

Above Ground Fighting Positions

- ***Used when frost line is greater than one foot thick and demo/engineer support not available; also used when little time is available***
- ***Dug as deep as possible***
- ***Parapets made of snow – 8-9 feet thick in front and 2-3 feet thick on sides***
- ***Parapets flat on top to deflect rounds***
- ***Reinforce parapets by adding sticks, twigs, etc. to the snow during packing***
- ***Snow bags or logs used for revetments for greater resistance to small arms and shrapnel***

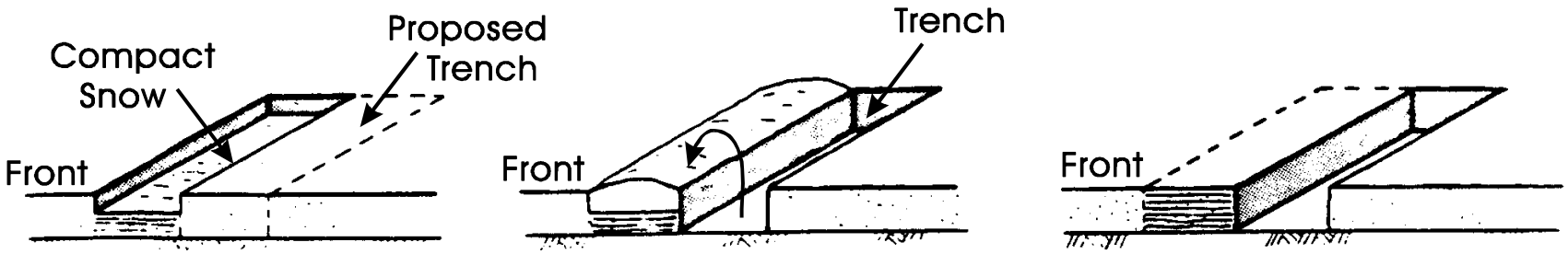
TOW / Machine Gun Position



TOW / Machine Gun Position

- ***Platform of plywood or timber***
- ***Parapets 8 to 9 feet***
- ***Side parapets 2 to 3 feet***
- ***Overhead cover offset to the rear***

Snow Trench



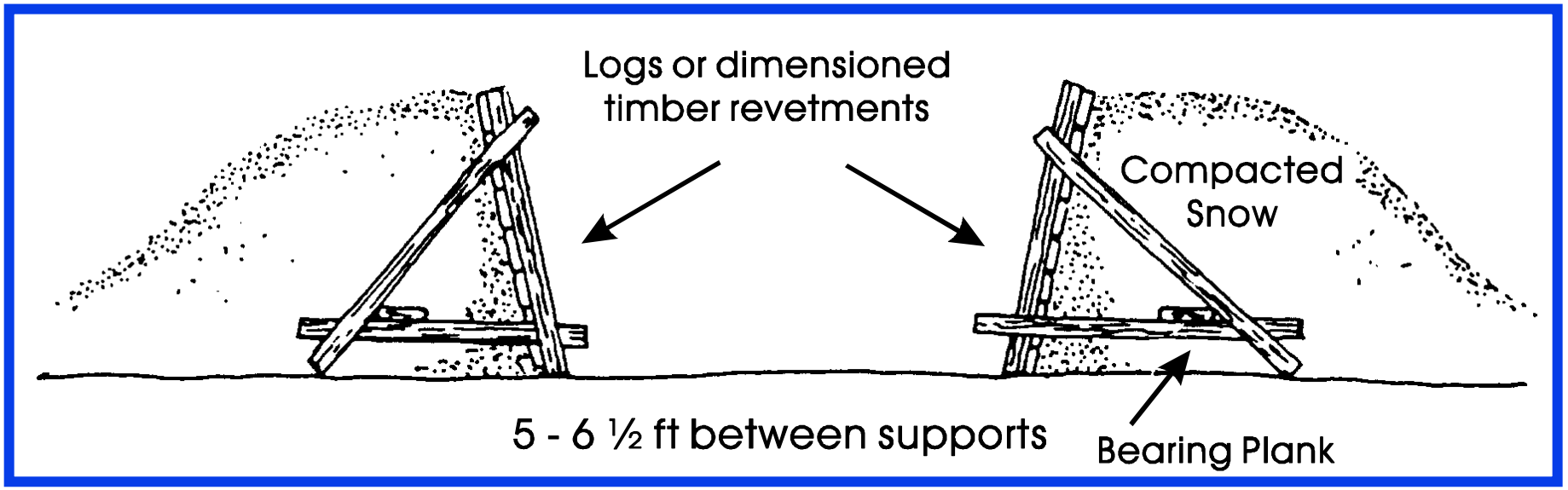
Step 1: Pack the snow in front of the trench.

Step 2: Place snow excavated from the trench in the packed snow.

Step 3: Smooth and level the packed snow.

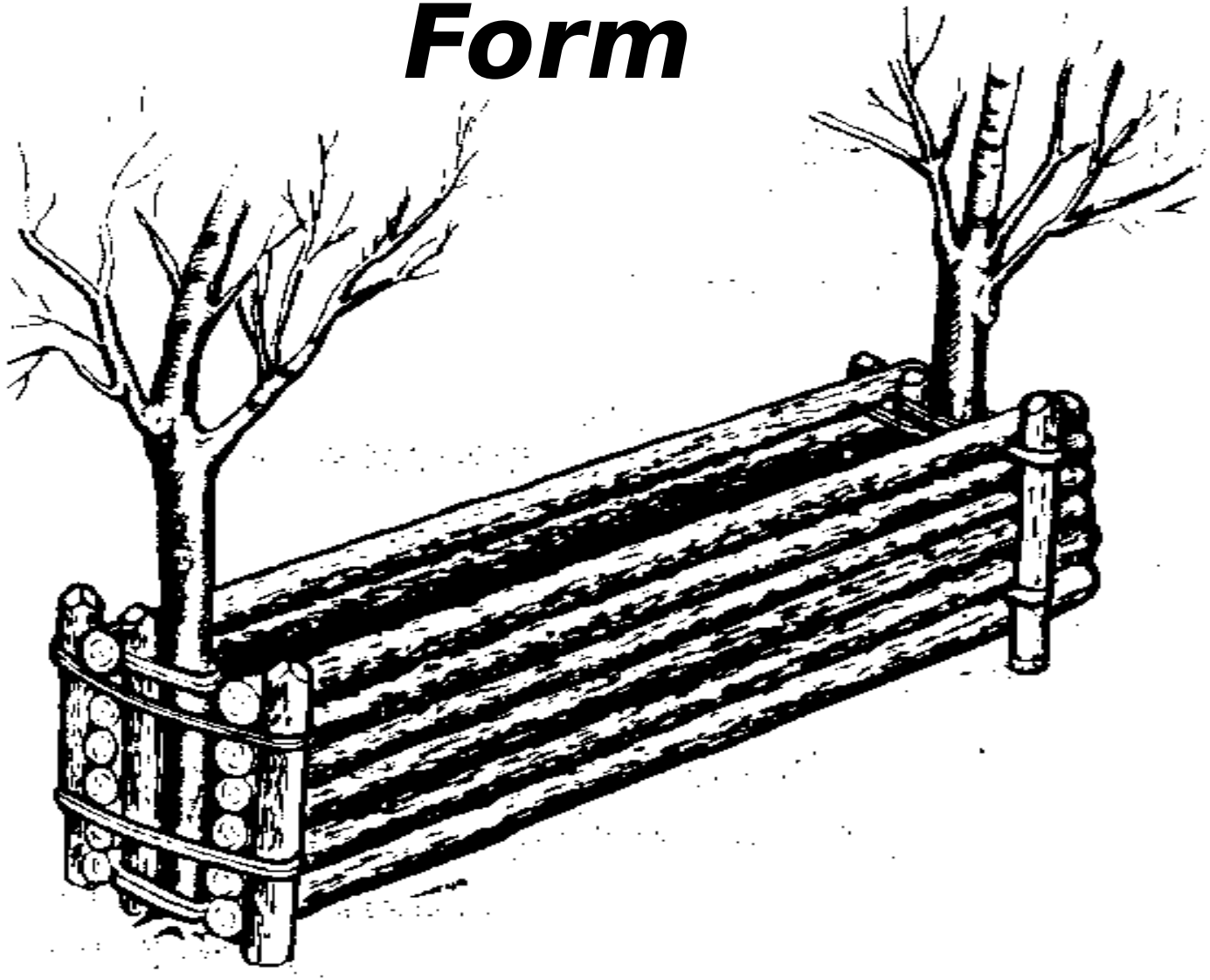
- ***At least two snowshoes wide***
- ***Pack snow in front of trench***
- ***Excavate the trench, placing snow to the front***
- ***Log or sandbag revetment can be used***

Snow Trench With Wood Revetment

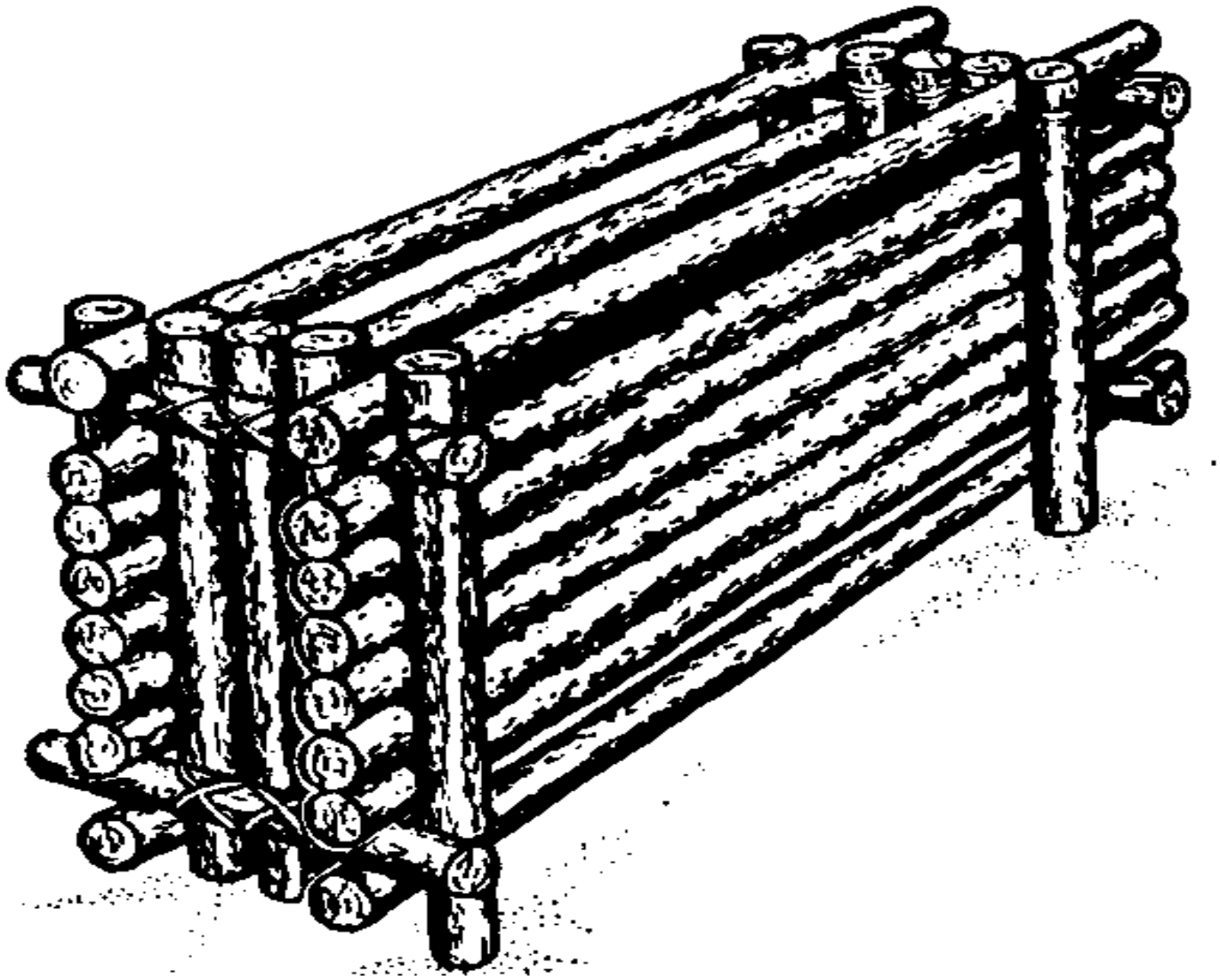


- ***Approximately 6.5 feet of packed snow***
- ***Snow trench dug armpit deep***
- ***Logs or timber used for revetment***
- ***Ensure a base platform is constructed***

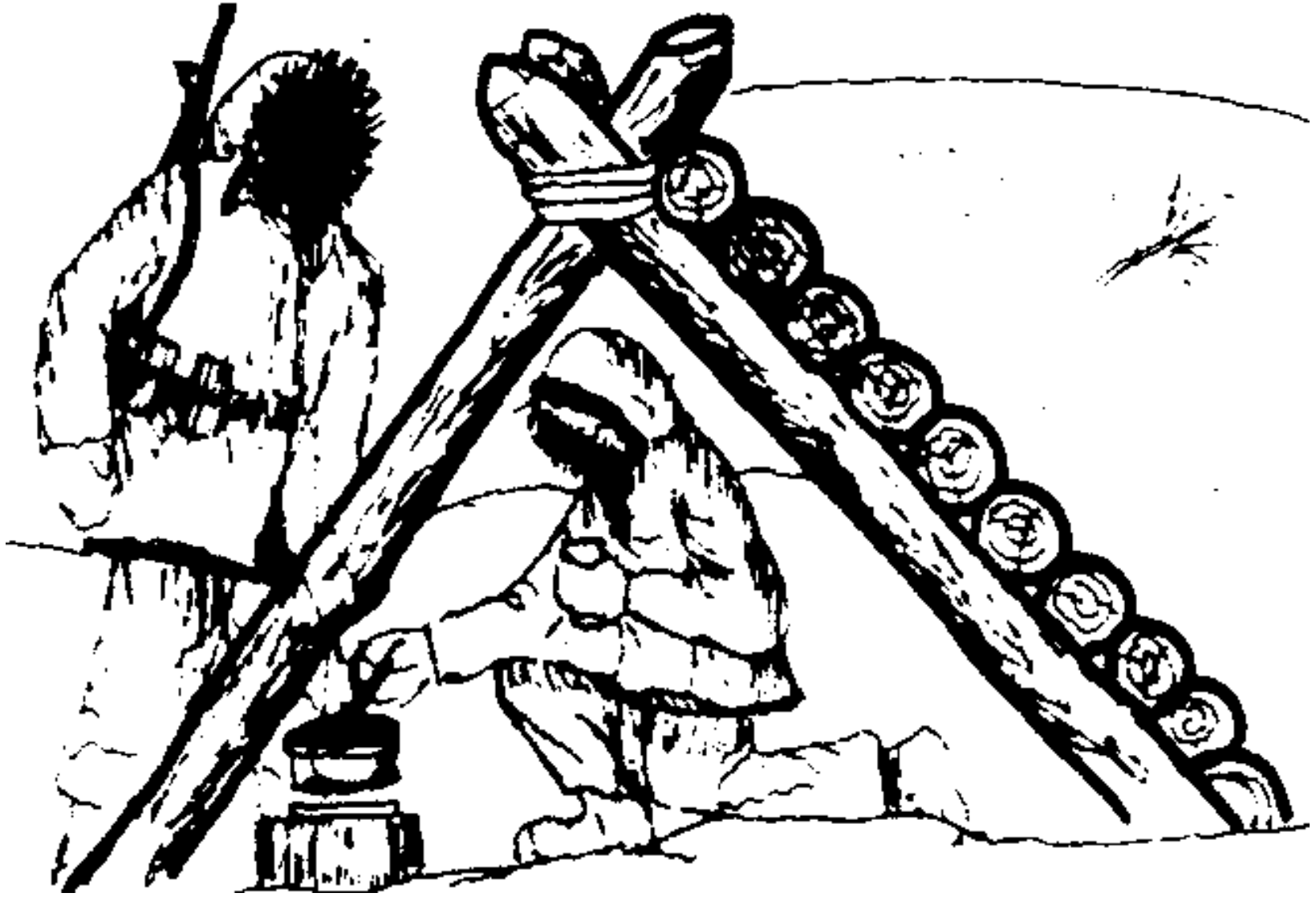
Tree and Log Form



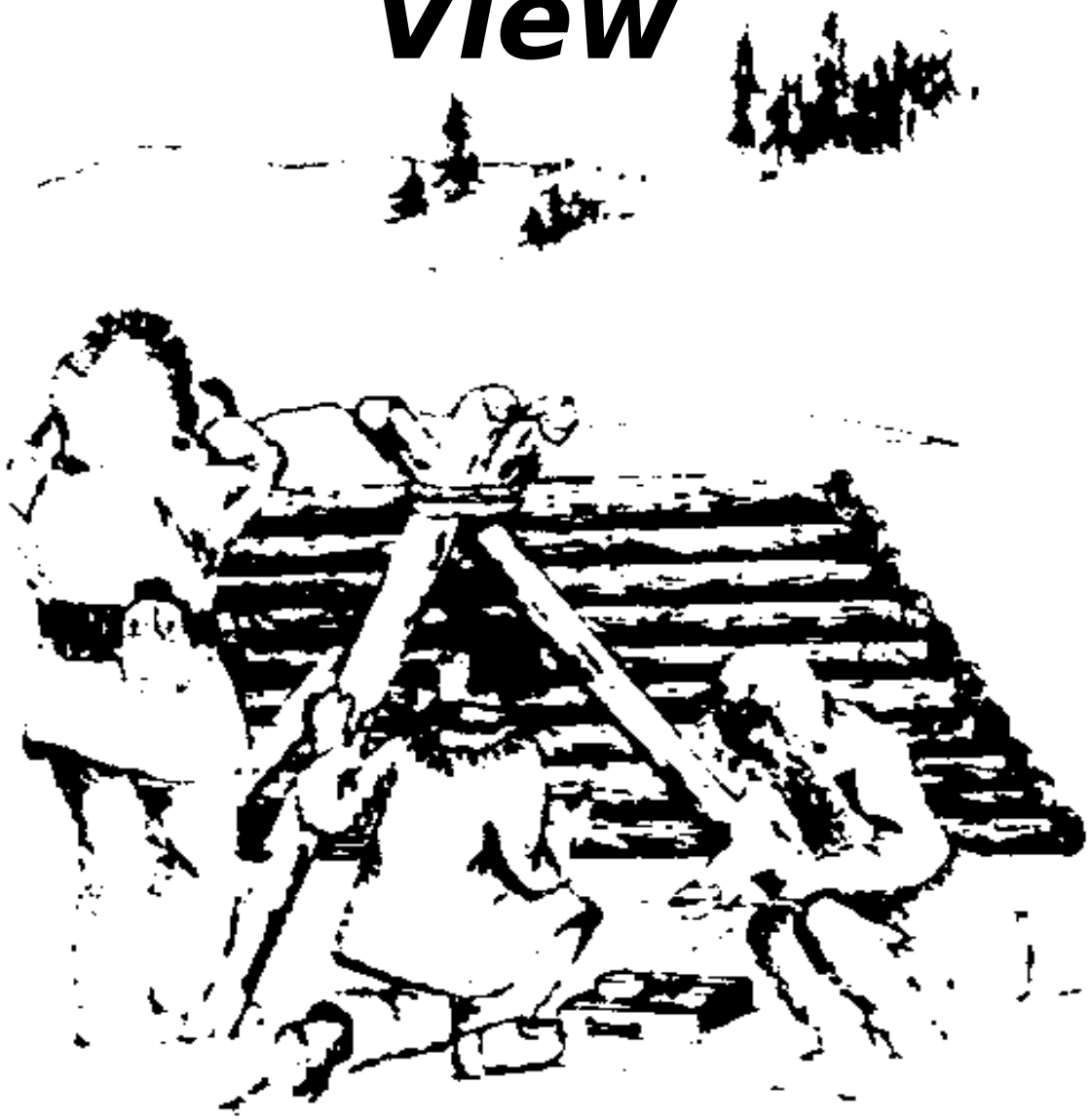
Log Form



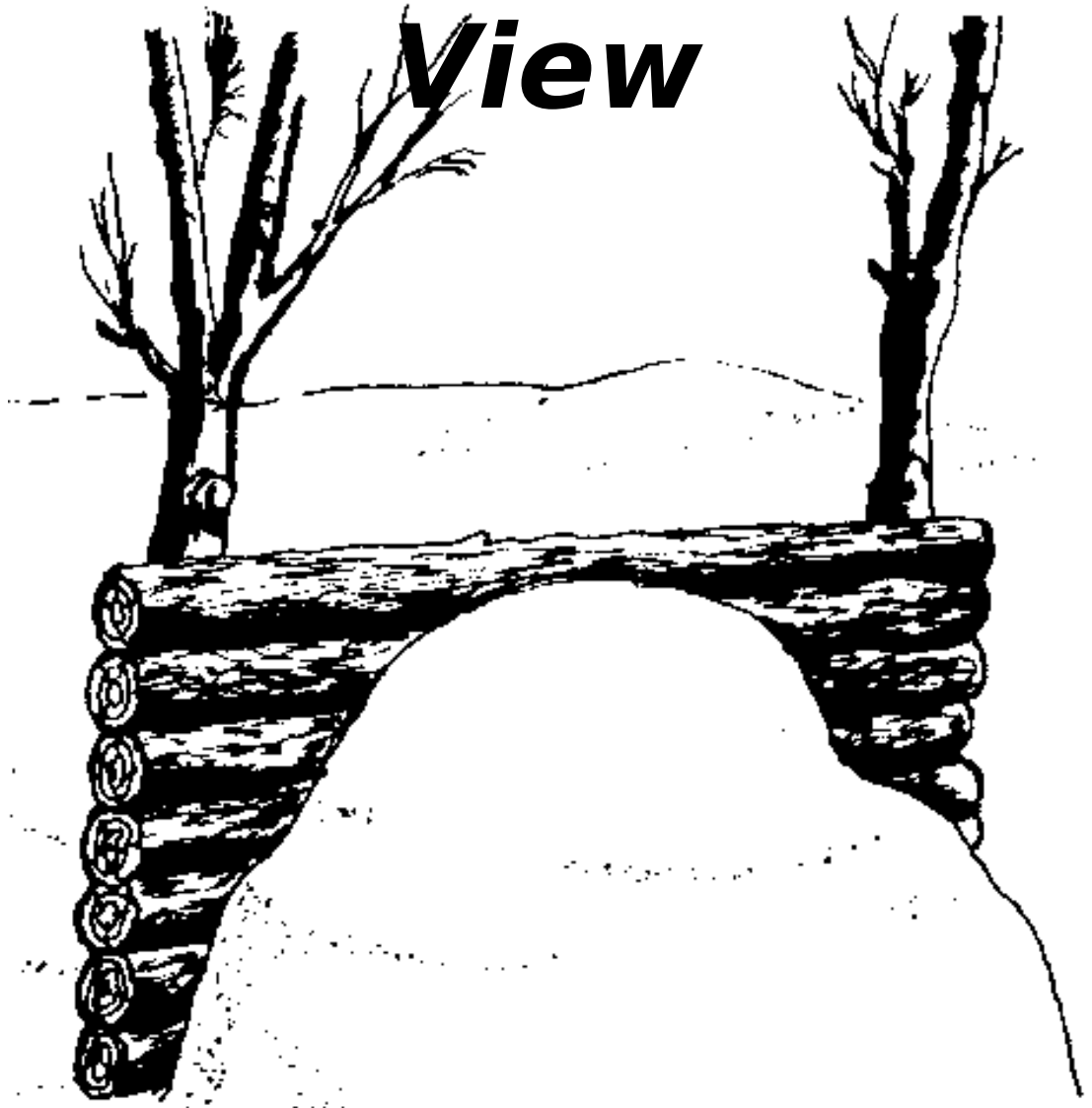
Tripod Supported Wall: Side View



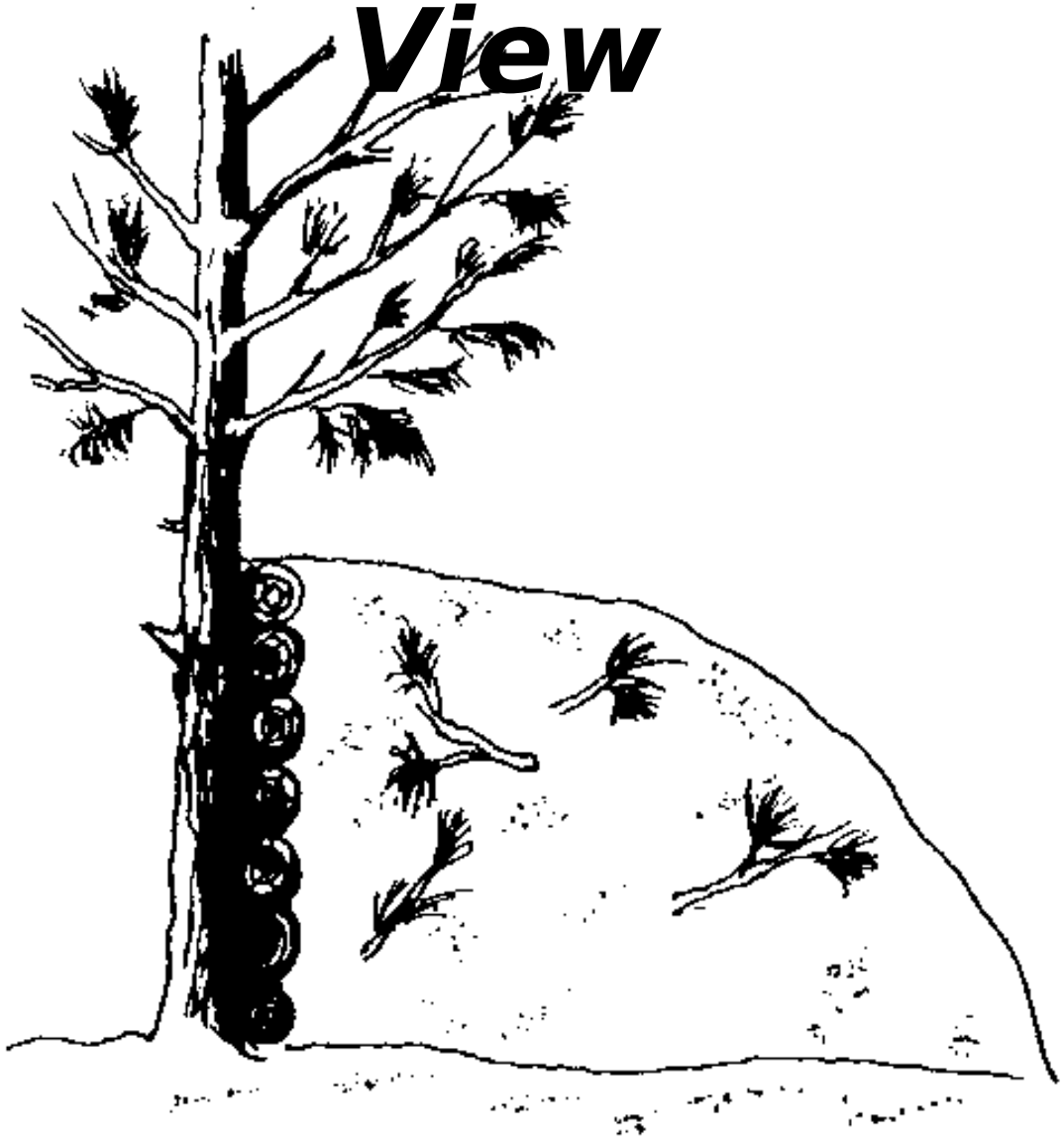
Tripod Supported Wall: Rear View



Tree Supported Wall: Oblique View



Tree Supported Wall: Side View



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